Special Issue

Applications of Machine Learning with White-Boxing

Message from the Guest Editor

All is used to build devices and machines that can learn and mimic cognitive the functions of humans. ML is the discipline that develops and investigates methods for predicting a response variable Y based on data collected on Y and potential predictors or features X1. X2. Xp. If the response Y is binary or categorical with only a few labels, the ML method is called a classifier. If data have no Y or labels, the ML method is referred to as an unsupervised learning method. If the response Y is continuous, the ML methods behave like linear or nonlinear regression methods. ML provides the predictions that are needed by Al. ML prediction methods are called Black-Box routines since they only provide a predicted value, with no explanation or interpretation of results. White-Boxing, another ML method, provides some explanation of how the outputs are related to the features. This Special Issue aims to explore the cuttingedge applications of White-Box machine learning models in Al systems. It provides a platform for researchers to share their innovative research, methodologies, and insights on the application and implications of White-Box approaches in machine learning.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multidimensional network.

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